



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BM (IS 2386:(Part 1) 1963 (RA2011))

Date: 13-05-23

Lab ID : CP-2023-05-12-01
Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)
Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyanagar, Bangalore-43
Customer Reference : BBMP/EE/BTP/WO/53/2022-23
Date of Receipt : 12-05-23
Type of Mix : BM (Bituminous Macadam) Hegade Nagar- 6th Cross Road
Date of test : 12-05-23

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	484.5	485
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	3.5	3.40
7	Average percentage	%	3.45	

ಸಹಾಯಕ ಅಧೀಕ್ಷಕರು
ಕೆ.ಆರ್.ಎಸ್. ಪ್ರಾ.ಬಿ.ರಾಜೇಶ್ವರಿ ಉಪ ನಿರ್ದೇಶಕರು

ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ ಅಧೀಕ್ಷಕರು
ಪ್ರಾ.ಬಿ.ರಾಜೇಶ್ವರಿ ಉಪ ನಿರ್ದೇಶಕರು
- ಕೆ.ಆರ್.ಎಸ್. ಬೆಂಗಳೂರು-24

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Authorized Signatory
Quality Manager

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Lab ID : CP-2023-05-12-01

Date: 13-05-23

AFTER EXTRACTION(Trail-1)

Weight of Sample : 484.5 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	34	34	7.0	93.0	90-100
13.2	138	172	35.5	64.5	56-88
4.75	149	321	66.3	33.7	16-36
2.36	81	402	83.0	17.0	4-19
0.3	45	447	92.3	7.7	2-10
0.075	20	467	96.4	3.6	0-8

AFTER EXTRACTION(Trail-2)

Weight of Sample : 485 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	33	33	6.8	93.2	90-100
13.2	149	182	37.5	62.5	56-88
4.75	155	337	69.5	30.5	16-36
2.36	63	400	82.5	17.5	4-19
0.3	47	447	92.2	7.8	2-10
0.075	19	466	96.1	3.9	0-8

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಶ್ರೀಮತಿ. ಪ್ರತಿಪಾದಿಸುವರು ಉಪ ನಿರ್ದೇಶಕರು
ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ ಅಭಿಯಂತರರು
ಪ್ರಾಧಿಕಾರವುಳ್ಳವರು ಉಪ ನಿರ್ದೇಶಕರು
ಶ್ರೀಮತಿ. ರಾಜೇಶ್ವರಿ-24



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

**TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)**

Lab ID : CP-2023-05-17-01 Date: 18-05-23
Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)
Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43
Customer Reference : BBMP/EE/BTP/WO/53/2022-23
Date of Receipt : 17-05-23
Type of Mix : BC (Bituminous Concrete) Hegade Nagar- 5th Cross Road
Date of test : 17-05-23

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	473.5	474
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	5.70	5.60
7	Average percentage	%	5.65	

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ಸಿ.ಪಿ.ಎಂ.ಪಿ. ಪ್ರಾಜೆಕ್ಟ್‌ಗಳನ್ನು ಉಪ ನಿರ್ವಹಿಸುವ
ಬಿ.ಸಿ.ಎಂ.ಪಿ. ಕಛೇರಿ-24



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Lab ID : CP-2023-05-17-01

Date: 18-05-23

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 473.5

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	13.9	86.1	70-88
4.75	112	178	37.6	62.4	53-71
2.36	88	266	56.2	43.8	42-58
1.18	29	295	62.3	37.7	34-48
0.6	11	306	64.6	35.4	26-38
0.3	46	352	74.3	25.7	18-28
0.15	45	397	83.8	16.2	12-20
0.075	55	452	95.5	4.5	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 474

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	13.9	86.1	70-88
4.75	112	178	37.6	62.4	53-71
2.36	88	266	56.1	43.9	42-58
1.18	29	295	62.2	37.8	34-48
0.6	11	306	64.6	35.4	26-38
0.3	46	352	74.3	25.7	18-28
0.15	45	397	83.8	16.2	12-20
0.075	50	447	94.3	5.7	4-10

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು

ದಿನ 18.05.23 ರಂದು

ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ ಅಭಿಯಂತರರು
ಪ್ರಯೋಗಾಲಯದ ಮೇಲೆ ದೃಢೀಕರಣ
ಮುದ್ರಣ, ಮಾರ್ಚ್-24



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**TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)**

Lab ID : CP-2023-05-17-01 Date: 18-05-23
Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)
Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43
Customer Reference : BBMP/EE/BTP/WO/53/2022-23
Date of Receipt : 17-05-23
Type of Mix : BC (Bituminous Concrete) Hegade Nagar- 9th Cross Road
Date of test : 17-05-23

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	474.5	474
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	5.50	5.60
7	Average percentage	%	5.55	

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಎಂ.ಪಿ. ಮುಖಾಂತರ ಉಪ ವಿಭಾಗ
ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ ಅಭಿಯಂತರರು
ಮುಖಾಂತರ ಉಪ ವಿಭಾಗ
ಬಿ.ಎಂ.ಪಿ. ಮುಖಾಂತರ-24



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Lab ID : CP-2023-05-17-01

Date: 18-05-23

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 474.5

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	6	6	1.3	98.7	90-100
9.5	75	81	17.1	82.9	70-88
4.75	120	201	42.4	57.6	53-71
2.36	67	268	56.5	43.5	42-58
1.18	32	300	63.2	36.8	34-48
0.6	15	315	66.4	33.6	26-38
0.3	38	353	74.4	25.6	18-28
0.15	29	382	80.5	19.5	12-20
0.075	63	445	93.8	6.2	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 474

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	10	10	2.1	97.9	90-100
9.5	75	85	17.9	82.1	70-88
4.75	120	205	43.2	56.8	53-71
2.36	59	264	55.7	44.3	42-58
1.18	32	296	62.4	37.6	34-48
0.6	15	311	65.6	34.4	26-38
0.3	52	363	76.6	23.4	18-28
0.15	48	411	86.7	13.3	12-20
0.075	35	446	94.1	5.9	4-10

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಕೆ.ವಿ.ಎಂ.ಪಿ. ಪ್ರಾ.ಪ್ರಾ.ವಿ.ನಗರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ ಅಭಿಯಂತರರು
ಪ್ರಾ.ಪ್ರಾ.ವಿ.ನಗರ ಉಪ ವಿಭಾಗ
ಕೆ.ವಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-24



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**TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)**

Lab ID : CP-2023-05-18-01 Date: 19-05-23
Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)
Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43
Customer Reference : BBMP/EE/BTP/WO/53/2022-23
Date of Receipt : 18-05-23
Type of Mix : BC (Bituminous Concrete) Hegade Nagar- 6th Cross Road
Date of test : 18-05-23

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	474.5	473.5
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	5.50	5.70
7	Average percentage	%	5.60	

ಇದರಲ್ಲಿ ಉಪಯೋಗಿಸಿದ
ಪದ್ಧತಿ 2.3.1 ಪ್ರಕಾರವಾಗಿದೆ ಮತ್ತು ವಿವರ



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ಇದರಲ್ಲಿ ಉಪಯೋಗಿಸಿದ
ಪದ್ಧತಿ 2.3.1 ಪ್ರಕಾರವಾಗಿದೆ ಮತ್ತು ವಿವರ
18-05-23, ಬೆಂಗಳೂರು-24

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Lab ID

: CP-2023-05-18-01

Date: 19-05-23

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm)

: 474.5

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	13	13	2.7	97.3	90-100
9.5	80	93	19.6	80.4	70-88
4.75	117	210	44.3	55.7	53-71
2.36	60	270	56.9	43.1	42-58
1.18	36	306	64.5	35.5	34-48
0.6	20	326	68.7	31.3	26-38
0.3	35	361	76.1	23.9	18-28
0.15	32	393	82.8	17.2	12-20
0.075	50	443	93.4	6.6	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm)

: 473.5

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	17	17	3.6	96.4	90-100
9.5	91	108	22.8	77.2	70-88
4.75	110	218	46.0	54.0	53-71
2.36	45	263	55.5	44.5	42-58
1.18	40	303	64.0	36.0	34-48
0.6	19	322	68.0	32.0	26-38
0.3	48	370	78.1	21.9	18-28
0.15	35	405	85.5	14.5	12-20
0.075	28	433	91.4	8.6	4-10

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭ್ಯಾಸಕರು

ಇ. ಎಂ. ಎ. ಮಲ್ಲೇಶ್ವರಂ ರಸ್ತೆ ಬಳಿ

ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ ಅಭ್ಯಾಸಕರು
ಮಲ್ಲೇಶ್ವರಂ ರಸ್ತೆ ಬಳಿ
ಇ. ಎಂ. ಎ. ಮಲ್ಲೇಶ್ವರಂ-24



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**TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)**

Lab ID : CP-2023-05-18-01 Date: 19-05-23
Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)
Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyanagar, Bangalore-43
Customer Reference : BBMP/EE/BTP/WO/53/2022-23
Date of Receipt : 18-05-23
Type of Mix : BC (Bituminous Concrete) Hegade Nagar- 8th Cross Road
Date of test : 18-05-23

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	474	475
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	5.60	5.40
7	Average percentage	%	5.50	

ಇದರಲ್ಲಿ ಉಪಯೋಗಿಸಿದ
ಸಾಮಗ್ರಿಗಳ ಪಟ್ಟಿಯನ್ನು ಉಪಬಂಧದಲ್ಲಿ ನೀಡಲಾಗಿದೆ

ಇದರಲ್ಲಿ ಉಪಯೋಗಿಸಿದ
ಸಾಮಗ್ರಿಗಳ ಪಟ್ಟಿಯನ್ನು ಉಪಬಂಧದಲ್ಲಿ ನೀಡಲಾಗಿದೆ
ಪುಟ ಸಂಖ್ಯೆ - 14

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Lab ID : CP-2023-05-18-01

Date: 19-05-23

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) :

474

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	18	18	3.8	96.2	90-100
9.5	78	96	20.3	79.7	70-88
4.75	115	211	44.5	55.5	53-71
2.36	50	261	55.1	44.9	42-58
1.18	33	294	62.0	38.0	34-48
0.6	25	319	67.3	32.7	26-38
0.3	31	350	73.8	26.2	18-28
0.15	35	385	81.2	18.8	12-20
0.075	60	445	93.9	6.1	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) :

475

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	20	20	4.2	95.8	90-100
9.5	100	120	25.3	74.7	70-88
4.75	102	222	46.7	53.3	53-71
2.36	48	270	56.8	43.2	42-58
1.18	35	305	64.2	35.8	34-48
0.6	23	328	69.1	30.9	26-38
0.3	45	373	78.5	21.5	18-28
0.15	38	411	86.5	13.5	12-20
0.075	30	441	92.8	7.2	4-10

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಇಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜ್
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಇಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜ್

ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ
ಇಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜ್
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಇಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜ್



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R. KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 2/2
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**TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)**

Lab ID : CP-2023-05-20-01 Date: 22-05-23
Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)
Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyanagar, Bangalore-43
Customer Reference : BBMP/EE/BTP/WO/53/2022-23
Date of Receipt : 20-05-23
Type of Mix : BC (Bituminous Concrete) Ganesh Temple Road Shabri Nagar
Date of test : 20-05-23

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	474.5	475
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	5.50	5.40
7	Average percentage	%	5.45	

ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ
ಪ್ರಾ.ಪ್ರ.ಪಂ.ಯವರು
ಬಿ.ಬಿ.ಎಂ.ಪಂ., ಬೆಂಗಳೂರು-28

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Lab ID

: CP-2023-05-20-01

Date: 22-05-23

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm)

: 474.5

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	17	17	3.6	96.4	90-100
9.5	77	94	19.8	80.2	70-88
4.75	117	211	44.5	55.5	53-71
2.36	57	268	56.5	43.5	42-58
1.18	31	299	63.0	37.0	34-48
0.6	26	325	68.5	31.5	26-38
0.3	28	353	74.4	25.6	18-28
0.15	41	394	83.0	17.0	12-20
0.075	55	449	94.6	5.4	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm)

: 475

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	18	18	3.8	96.2	90-100
9.5	90	108	22.7	77.3	70-88
4.75	99	207	43.6	56.4	53-71
2.36	55	262	55.2	44.8	42-58
1.18	38	300	63.2	36.8	34-48
0.6	26	326	68.6	31.4	26-38
0.3	50	376	79.2	20.8	18-28
0.15	34	410	86.3	13.7	12-20
0.075	28	438	92.2	7.8	4-10

* The results obtained are satisfactory as per standard requirements.

(Signature)
ಸಹಕಾರಿ ಅಧಿಕಾರಿ
ಕೆ.ಎಂ.ಎ. ಮಲ್ಟಿ-ಟೆಕ್ನಾಲಜಿ ಲ್ಯಾಬ್ಸ್
ಸಹಕಾರಿ ಅಧಿಕಾರಿ
ಪ್ರಕೃತ ಸಂಪನ್ಮೂಲ ಮತ್ತು ಪರಿಸರ
ಪ್ರಕೃತ ಸಂಪನ್ಮೂಲ ಮತ್ತು ಪರಿಸರ
ಕೆ.ಎಂ.ಎ. ಮಲ್ಟಿ-ಟೆಕ್ನಾಲಜಿ ಲ್ಯಾಬ್ಸ್



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(Signature)
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

: CP-2023-05-23-01

Date: 24-05-23

AFTER EXTRACTION(Trail-1)

: 484

Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading-2)
26.5	0	0	0.0	100.0	100
19	38	38	7.9	92.1	90-100
13.2	131	169	34.9	65.1	56-88
4.75	151	320	66.1	33.9	16-36
2.36	86	406	83.9	16.1	4-19
0.3	50	456	94.2	5.8	2-10
0.075	18	474	97.9	2.1	0-8

AFTER EXTRACTION(Trail-2)

: 484.5

Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	36	36	7.4	92.6	90-100
13.2	142	178	36.7	63.3	56-88
4.75	148	326	67.3	32.7	16-36
2.36	71	397	81.9	18.1	4-19
0.3	50	447	92.3	7.7	2-10
0.075	17	464	95.8	4.2	0-8

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಧೀನಾಧಿಕಾರಿಗಳು
ಜಿಲ್ಲಾ ಪಂಚಾಯತ್, ಬೆಂಗಳೂರು-24



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Lab ID : CP-2023-05-24-01

Date: 25-05-23

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 475

Total Weight of the Sample(gm)		: 475			
IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	22	22	4.6	95.4	90-100
9.5	80	102	21.5	78.5	70-88
4.75	110	212	44.6	55.4	53-71
2.36	55	267	56.2	43.8	42-58
1.18	36	303	63.8	36.2	34-48
0.6	25	328	69.1	30.9	26-38
0.3	30	358	75.4	24.6	18-28
0.15	39	397	83.6	16.4	12-20
0.075	50	447	94.1	5.9	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 474

Total Weight of the Sample(gm)		: 474			
IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	17	17	3.6	96.4	90-100
9.5	93	110	23.2	76.8	70-88
4.75	96	206	43.5	56.5	53-71
2.36	55	261	55.1	44.9	42-58
1.18	39	300	63.3	36.7	34-48
0.6	28	328	69.2	30.8	26-38
0.3	53	381	80.4	19.6	18-28
0.15	33	414	87.3	12.7	12-20
0.075	26	440	92.8	7.2	4-10

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಛಿಂಪಿ, ಬ್ಯಾಟರಾಂನಮರ ಉಪ ವಿಭಾಗ

~~SECRET~~
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Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Lab ID	:	CP-2023-05-26-01	Date: 27-05-23
Project Name	:	Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)	
Agency	:	M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43	
Customer Reference	:	BBMP/EE/BTP/WO/53/2022-23	
Date of Receipt	:	26-05-23	
Type of Mix	:	BM (Bituminous Macadam) Amar Jyothi Layout- 2nd Cross Road	
Date of test	:	26-05-23	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	485	484
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	3.4	3.60
7	Average percentage	%	3.50	


 ಸಹಾಯಕ ಅಭಿಯಂತರರು
 ೧೧.೧೧.೭೭ ಜ್ಯೋತಿಷಾಧಿಕಾರಿಗಳ ಕಛೇರಿ, ಬೆಂಗಳೂರು


 ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ ಅಭಿಯಂತರರು
 ಜ್ಯೋತಿಷಾಧಿಕಾರಿಗಳ ಕಛೇರಿ, ಬೆಂಗಳೂರು
 ೧೧.೧೧.೭೭, ಬೆಂಗಳೂರು-೭೬

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Lab ID : CP-2023-05-26-01

Date: 27-05-23

AFTER EXTRACTION(Trail-1)

Weight of Sample : 485 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	40	40	8.2	91.8	90-100
13.2	136	176	36.3	63.7	56-88
4.75	161	337	69.5	30.5	16-36
2.36	60	397	81.9	18.1	4-19
0.3	48	445	91.8	8.2	2-10
0.075	18	463	95.5	4.5	0-8

AFTER EXTRACTION(Trail-2)

Weight of Sample : 484 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	33	33	6.8	93.2	90-100
13.2	140	173	35.7	64.3	56-88
4.75	144	317	65.5	34.5	16-36
2.36	79	396	81.8	18.2	4-19
0.3	50	446	92.1	7.9	2-10
0.075	17	463	95.7	4.3	0-8

* The results obtained are satisfactory as per standard requirements.

ಕರ್ತೃತ್ವದ ಉಪಯೋಗ
ದಿ.ಡಿ.ಎಂ.ಪಿ. ಪ್ರಾಜೆಕ್ಟ್‌ನಲ್ಲಿ ಉಪಯೋಗ
ಕರ್ತೃತ್ವದ ಉಪಯೋಗ
ಪ್ರಾಜೆಕ್ಟ್‌ನಲ್ಲಿ ಉಪಯೋಗ
ಉಪಯೋಗ - 24



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4, 7TH MAIN MALLASWARAM, BANGALORE - 5

TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 3386 (Part 1) 1963 (RA 2011)

Lab ID : CP-2023-05-36-01 Date: 27-05-23
Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 01) Package
Consists of 11 Works
Agency : M/S CIVIL Pro Projects Pvt. Ltd, Plot AC-102, 1st Floor, Kammanahalli Main Road,
HRIR Layout, 3rd Block, Kalyanapur, Bangalore-54
Customer Reference : BHMP/14/HPP/WCVS/2022-23
Date of Receipt : 26-05-23
Type of Mix : BC (Bituminous Concrete) Bharathi Nagar- 3rd Cross Road
Date of test : 26-05-23

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	474.5	474
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	5.50	5.60
7	Average percentage	%	5.55	

Signature of the Analyst

26-05-23, 11:00 AM

Signature of the Quality Manager
26-05-23, 11:00 AM



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Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Lab ID : CP-2023-05-26-01

Date: 27-05-23

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 474.5

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	20	20	4.2	95.8	90-100
9.5	78	98	20.7	79.3	70-88
4.75	107	205	43.2	56.8	53-71
2.36	54	259	54.6	45.4	42-58
1.18	34	293	61.7	38.3	34-48
0.6	24	317	66.8	33.2	26-38
0.3	33	350	73.8	26.2	18-28
0.15	40	390	82.2	17.8	12-20
0.075	48	438	92.3	7.7	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 474

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	15	15	3.2	96.8	90-100
9.5	90	105	22.2	77.8	70-88
4.75	91	196	41.4	58.6	53-71
2.36	60	256	54.0	46.0	42-58
1.18	40	296	62.4	37.6	34-48
0.6	30	326	68.8	31.2	26-38
0.3	51	377	79.5	20.5	18-28
0.15	30	407	85.9	14.1	12-20
0.075	30	437	92.2	7.8	4-10

* The results obtained are satisfactory as per standard requirements.

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**TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)**

Lab ID : CP-2023-05-26-01 Date: 27-05-23
Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)
Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyanagar, Bangalore-43
Customer Reference : BBMP/EE/BTP/WO/53/2022-23
Date of Receipt : 26-05-23
Type of Mix : BC (Bituminous Concrete) Bharath Nagar- Abubakar Masjid Road
Date of test : 26-05-23

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	474	473.5
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	5.60	5.70
7	Average percentage	%	5.65	

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಮ್ಯಾಟರಿಯಲ್ಸ್ ಉಪ ವಿಭಾಗ
ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಮ್ಯಾಟರಿಯಲ್ಸ್ ಉಪ ವಿಭಾಗ
ಕೆ.ಆರ್.ನಗರ-24

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4, 7TH MAIN MALLSWARAM, BANGALORE -3

Lab ID : CP-2023-05-26-01

Date: 27-05-23

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm)

: 474

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	22	22	4.6	95.4	90-100
9.5	80	102	21.5	78.5	70-88
4.75	100	202	42.6	57.4	53-71
2.36	50	252	53.2	46.8	42-58
1.18	36	288	60.8	39.2	34-48
0.6	27	315	66.5	33.5	26-38
0.3	36	351	74.1	25.9	18-28
0.15	41	392	82.7	17.3	12-20
0.075	55	447	94.3	5.7	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm)

473.5

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	20	20	4.2	95.8	90-100
9.5	93	113	23.9	76.1	70-88
4.75	98	211	44.6	55.4	53-71
2.36	62	273	57.7	42.3	42-58
1.18	38	311	65.7	34.3	34-48
0.6	32	343	72.4	27.6	26-38
0.3	30	373	78.8	21.2	18-28
0.15	28	401	84.7	15.3	12-20
0.075	38	439	92.7	7.3	4-10

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಎಂ.ಪಿ. ಪ್ರಾಚಾರ್ಯರವರ ಅಂತರ ವಿಭಾಗ

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**TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)**

Lab ID : CP-2023-05-27-01 Date: 29-05-23
Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)
Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyanagar, Bangalore-43
Customer Reference : BBMP/EE/BTP/WO/53/2022-23
Date of Receipt : 27-05-23
Type of Mix : BC (Bituminous Concrete) Amar Jyothi Layout- 2nd Cross Road
Date of test : 27-05-23

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	473.5	474.5
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	5.70	5.50
7	Average percentage	%	5.60	

ಕರ್ನಾಟಕ ಸಾರ್ವಜನಿಕ ಅಭಿವೃದ್ಧಿ ಇಲಾಖೆ
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Lab ID : CP-2023-05-27-01

Date: 29-05-23

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm)		: 473.5			
IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	18	18	3.8	96.2	90-100
9.5	88	106	22.4	77.6	70-88
4.75	105	211	44.6	55.4	53-71
2.36	57	268	56.6	43.4	42-58
1.18	40	308	65.0	35.0	34-48
0.6	30	338	71.4	28.6	26-38
0.3	39	377	79.6	20.4	18-28
0.15	35	412	87.0	13.0	12-20
0.075	35	447	94.4	5.6	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm)		: 474.5			
IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	19	19	4.0	96.0	90-100
9.5	96	115	24.2	75.8	70-88
4.75	100	215	45.3	54.7	53-71
2.36	55	270	56.9	43.1	42-58
1.18	40	310	65.3	34.7	34-48
0.6	33	343	72.3	27.7	26-38
0.3	28	371	78.2	21.8	18-28
0.15	35	406	85.6	14.4	12-20
0.075	40	446	94.0	6.0	4-10

* The results obtained are satisfactory as per standard requirements.

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**TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)**

Lab ID : CP-2023-05-29-01 Date: 30-05-23
Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)
Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyanagar, Bangalore-43
Customer Reference : BBMP/EE/BTP/WO/53/2022-23
Date of Receipt : 29-05-23
Type of Mix : BC (Bituminous Concrete) Bharath Nagar-KM Naveed Store Beside Road
Date of test : 29-05-23

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	474.5	475
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	5.50	5.40
7	Average percentage	%	5.45	

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ಸಹಾಯಕ ಅಭಿಯಂತರರು
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Lab ID : CP-2023-05-29-01

Date: 30-05-23

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm)		: 474.5			
IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	21	21	4.4	95.6	90-100
9.5	89	110	23.2	76.8	70-88
4.75	103	213	44.9	55.1	53-71
2.36	58	271	57.1	42.9	42-58
1.18	35	306	64.5	35.5	34-48
0.6	34	340	71.7	28.3	26-38
0.3	34	374	78.8	21.2	18-28
0.15	36	410	86.4	13.6	12-20
0.075	45	455	95.9	4.1	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm)		: 475			
IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	15	15	3.2	96.8	90-100
9.5	94	109	22.9	77.1	70-88
4.75	101	210	44.2	55.8	53-71
2.36	56	266	56.0	44.0	42-58
1.18	41	307	64.6	35.4	34-48
0.6	35	342	72.0	28.0	26-38
0.3	30	372	78.3	21.7	18-28
0.15	38	410	86.3	13.7	12-20
0.075	43	453	95.4	4.6	4-10

* The results obtained are satisfactory as per standard requirements.

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ಬೆಂಗಳೂರು
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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BM
(IS 2386:(Part 1) 1963 (RA2011))

Lab ID	:	CP-2023-05-30-01	Date: 31-05-23
Project Name	:	Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)	
Agency	:	M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43	
Customer Reference	:	BBMP/EE/BTP/WO/53/2022-23	
Date of Receipt	:	30-05-23	
Type of Mix	:	BM (Bituminous Macadam) Vidyasagar layout- Main Road	
Date of test	:	30-05-23	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	484	484.5
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	$W5=W4-W3$	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	3.6	3.50
7	Average percentage	%	3.55	

ಶಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ
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Lab ID : CP-2023-05-30-01

Date: 31-05-23

AFTER EXTRACTION(Trail-1)

Weight of Sample : 484

Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	38	38	7.9	92.1	90-100
13.2	134	172	35.5	64.5	56-88
4.75	157	329	68.0	32.0	16-36
2.36	65	394	81.4	18.6	4-19
0.3	46	440	90.9	9.1	2-10
0.075	20	460	95.0	5.0	0-8

AFTER EXTRACTION(Trail-2)

Weight of Sample : 484.5

Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	30	30	6.2	93.8	90-100
13.2	138	168	34.7	65.3	56-88
4.75	146	314	64.8	35.2	16-36
2.36	80	394	81.3	18.7	4-19
0.3	51	445	91.8	8.2	2-10
0.075	18	463	95.6	4.4	0-8

* The results obtained are satisfactory as per standard requirements.

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Date: 02-06-23

Lab ID : CP-2023-06-01-01

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm)		: 474			Secified limits as per MORTH specification table 500-23(grading-2)
IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	
	0	0	0.0	100.0	100
19	0	0	0.0	94.9	90-100
13.2	24	24	5.1	75.3	70-88
9.5	93	117	24.7	55.3	53-71
4.75	95	212	44.7	43.7	42-58
2.36	55	267	56.3	35.4	34-48
1.18	39	306	64.6	28.9	26-38
0.6	31	337	71.1	21.7	18-28
0.3	34	371	78.3	13.3	12-20
0.15	40	411	86.7	4.9	4-10
0.075	40	451	95.1		

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm)		: 473.5			Secified limits as per MORTH specification table 500-23(grading-2)
IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	
	0	0	0.0	100.0	100
19	0	0	0.0	96.4	90-100
13.2	17	17	3.6	76.1	70-88
9.5	96	113	23.9	54.2	53-71
4.75	104	217	45.8	43.4	42-58
2.36	51	268	56.6	35.0	34-48
1.18	40	308	65.0	27.8	26-38
0.6	34	342	72.2	21.6	18-28
0.3	29	371	78.4	13.2	12-20
0.15	40	411	86.8	5.2	4-10
0.075	38	449	94.8		

* The results obtained are satisfactory as per standard requirements.

ಸಹಕಾರಿ ಅಭಿವೃದ್ಧಿ
ಪ್ರತಿ 2023-06-02 ರಂದು ದತ್ತ
ಸಹಕಾರಿ ಅಭಿವೃದ್ಧಿ
ಪ್ರತಿ 2023-06-02 ರಂದು ದತ್ತ
ಪ್ರತಿ 2023-06-02 ರಂದು ದತ್ತ



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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : CP-2023-03-30-01 Date: 31-03-23
Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)
Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43
Customer Reference : BBMP/EE/BTP/WO/53/2022-23
Date of Receipt : 30-03-23
Type of Mix : Tack coat
Date of test : 30-03-23

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.803	0.771
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.256	0.256
7	Average	Kg/sq.m	0.256	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : CP-2023-04-01-01 Date: 03-04-23
Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)
Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyanagar, Bangalore-43
Customer Reference : BBMP/EE/BTP/WO/53/2022-23
Date of Receipt : 01-04-23
Type of Mix : Tack coat
Date of test : 01-04-23

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.804	0.771
5	Weight of tack Coat (d=c-b)	Kg	0.024	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.267	0.256
7	Average	Kg/sq.m	0.261	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ನಿರ್ದೇಶಕರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಜ್ಯೋತಿರಾಜನಗರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಾಚರಣೆ ಅಧಿಕಾರಿಗಳು
ಜ್ಯೋತಿರಾಜನಗರ ಉಪ ವಿಭಾಗ
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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : CP-2023-04-29-01 Date: 02-05-23
 Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)
 Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43
 Customer Reference : BBMP/EE/BTP/WO/53/2022-23
 Date of Receipt : 29-04-23
 Type of Mix : Tack coat
 Date of test : 29-04-23

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.804	0.772
5	Weight of tack Coat (d=c-b)	Kg	0.024	0.024
6	Rate of spread of tack coat	Kg/sq.m	0.267	0.267
7	Average	Kg/sq.m	0.267	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
 ಪ್ರಿ.ಎಂ.ಪಿ. ಮೈಸೂರುನಗರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಅಭಿಯಂತರರು
 ಮೈಸೂರುನಗರ ಉಪ ವಿಭಾಗ
 ಪ್ರಿ.ಎಂ.ಪಿ. ಮೈಸೂರು-24

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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : CP-2023-05-17-01 Date: 18-05-23
Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)
Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor,
Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43
Customer Reference : BBMP/EE/BTP/WO/53/2022-23
Date of Receipt : 17-05-23
Type of Mix : Tack coat
Date of test : 17-05-23

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.804	0.773
5	Weight of tack Coat (d=c-b)	Kg	0.024	0.025
6	Rate of spread of tack coat	Kg/sq.m	0.267	0.278
7	Average	Kg/sq.m	0.272	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಪ್ರಾಜೆಕ್ಟ್‌ಗಳ ಸಹ ನಿರ್ವಾಹಕರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಕಾರ್ಯಾಲಯ, ಬೆಂಗಳೂರು-24



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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : CP-2023-05-18-01 Date: 19-05-23
Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)
Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyanagar, Bangalore-43
Customer Reference : BBMP/EE/BTP/WO/53/2022-23
Date of Receipt : 18-05-23
Type of Mix : Tack coat
Date of test : 18-05-23

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.805	0.773
5	Weight of tack Coat (d=c-b)	Kg	0.025	0.025
6	Rate of spread of tack coat	Kg/sq.m	0.278	0.278
7	Average	Kg/sq.m	0.278	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

ಸಾಧಾರಣ ಪರೀಕ್ಷಾ ವರದಿ
ಪ್ರಾ.ಪ್ರ.ಪಂ. ಮೈಸೂರು ನಗರ ಪಂಚಾಯತ್

ಪ್ರಾ.ಪ್ರ.ಪಂ. ಮೈಸೂರು ನಗರ ಪಂಚಾಯತ್
ಪ್ರಾ.ಪ್ರ.ಪಂ. ಮೈಸೂರು ನಗರ ಪಂಚಾಯತ್
ಪ್ರಾ.ಪ್ರ.ಪಂ. ಮೈಸೂರು ನಗರ ಪಂಚಾಯತ್



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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : CP-2023-05-20-01 Date: 22-05-23
Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)
Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor,
Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43
Customer Reference : BBMP/EE/BTP/WO/53/2022-23
Date of Receipt : 20-05-23
Type of Mix : Tack coat
Date of test : 20-05-23

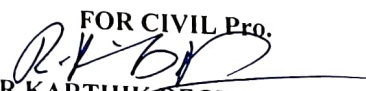
Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.804	0.771
5	Weight of tack Coat (d=c-b)	Kg	0.024	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.267	0.256
7	Average	Kg/sq.m	0.261	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.


ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಇಂಜಿನಿಯರಿಂಗ್ ಉಪ ವಿಭಾಗ


ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ ಅಭಿಯಂತರರು
ಇಂಜಿನಿಯರಿಂಗ್ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬಂಗಾಳು-24



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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : CP-2023-05-24-01 Date: 25-05-23
Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)
Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43
Customer Reference : BBMP/EE/BTP/WO/53/2022-23
Date of Receipt : 24-05-23
Type of Mix : Tack coat
Date of test : 24-05-23

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.804	0.772
5	Weight of tack Coat (d=c-b)	Kg	0.024	0.024
6	Rate of spread of tack coat	Kg/sq.m	0.267	0.267
7	Average	Kg/sq.m	0.267	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಪ್ರಾಂಶುಪಾಲರು
ದಿ. 25.05.23 ಪ್ರಾಂಶುಪಾಲಕರು ಉಪ ನಿರ್ದೇಶಕರು

ಸಹಾಯಕ ಪ್ರಾಂಶುಪಾಲಕ ಅಧೀನಾಧಿಕಾರಿ
ಪ್ರಾಂಶುಪಾಲಕರು ಉಪ ನಿರ್ದೇಶಕರು
ದಿ. 25.05.23, ಬೆಂಗಳೂರು-24



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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : CP-2023-05-26-01 Date: 27-05-23
Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)
Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43
Customer Reference : BBMP/EE/BTP/VO/53/2022-23
Date of Receipt : 26-05-23
Type of Mix : Tack coat
Date of test : 26-05-23

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.804	0.773
5	Weight of tack Coat (d=c-b)	Kg	0.024	0.025
6	Rate of spread of tack coat	Kg/sq.m	0.267	0.278
7	Average	Kg/sq.m	0.272	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಇ.ಡಿ.ಎಂ.ಸಿ. ಜ್ಯೋತಿರಾವನಗುರು ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಜ್ಯೋತಿರಾವನಗುರು ಉಪ ವಿಭಾಗ
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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : CP-2023-05-27-01 Date: 29-05-23
Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)
Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor,
Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyanagar, Bangalore-43
Customer Reference : BBMP/EE/BTP/WO/53/2022-23
Date of Receipt : 27-05-23
Type of Mix : Tack coat
Date of test : 27-05-23

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.802	0.772
5	Weight of tack Coat (d=c-b)	Kg	0.022	0.024
6	Rate of spread of tack coat	Kg/sq.m	0.244	0.267
7	Average	Kg/sq.m	0.256	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಶಿವಮೊಗ್ಗ ಜಿಲ್ಲಾಪಂಚಾಯತ್ ಉಪ ನಿರ್ದೇಶಕರು
ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಜಿಲ್ಲಾಪಂಚಾಯತ್ ಉಪ ನಿರ್ದೇಶಕರು
ಶಿವಮೊಗ್ಗ ಜಿಲ್ಲಾಪಂಚಾಯತ್ ಉಪ ನಿರ್ದೇಶಕರು-24



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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : CP-2023-06-01-01 Date: 02-06-23
Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)
Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43
Customer Reference : BBMP/EE/BTP/WO/53/2022-23
Date of Receipt : 01-06-23
Type of Mix : Tack coat
Date of test : 01-06-23

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.805	0.773
5	Weight of tack Coat (d=c-b)	Kg	0.025	0.025
6	Rate of spread of tack coat	Kg/sq.m	0.278	0.278
7	Average	Kg/sq.m	0.278	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಸಿ. ದೃಢೀಕರಣವುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ದೃಢೀಕರಣವುರ ಉಪ ವಿಭಾಗ
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